Oroville Facilities Relicensing

SP-F5/7ke TASK 2

ACHIEWEMENT OF

CURRENT STOCKING

GOALS

September 29,2004



STUDY OBJECTIVE

- Task 2 of Study Plan SP-F5/7 Evaluation of Fisheries Management on Project Fisheries
- Evaluation of whether the current stocking goals for Lake Oroville and the Thermalito Forebay have been achieved



CURRENT STOCKING PROGRAMS (2)

Lake Oroville

Thermalito Forebay

Both are Salmonid Stocking Programs



LAKE OROVILLE PROGRAM

- Implemented by DWR
- Stock 170,000 salmonids (annually)
- Coho salmon are current salmonid
- "Put-and-grow" type of program



HISTORY OF L. OROVILLE PROGRAM

- L. Oroville stocking began in 1968
- 1968 1992: RBT, BN, KS, COHO, KOK, BKT, LT
- Supply problems late 80s and early 90s
- 1993-2000: DWR/DFG: KS and BN
- 2000: Recommendation for 170,000 KS
 - Criteria: Growth to 13 in. at 18 months, 16 in. at 24 mo.



HISTORY OF L. OROVILLE PROGRAM (CONT'D)

- 2000: IHN Virus problem at FRH
- 2001: DFG IHN studies Coho were resistant
- 2002: Eggs from commercial hatchery in WA
- 2002 & 2003: Coho stocked: 178,529 and 172,792, respectively
- 2004: Disease problem with brood stock (BKD)
- 2005 End of Current License: Coho proposed for stocking, need to reach agreement with NOAA, DFG. Risk assessment being prepared

THERMALITO FOREBAY PROGRAM

- Implemented by DFG
- Stock 30,000 catchable RBT (annually)
- Put-and-take type program



HISTORY OF FOREBAY PROGRAM

- Less complicated than Oroville program
- Stocking began in 1981
- Species: RBT, BKT, BN
 - Since 2003, only RBT due to disease concerns



ACHIEVEMENT OF CURRENT STOCKING GOALS

Identify stocking goals for each water

Assess whether these goals are being achieved



LAKE OROVILLE STOCKING GOALS

- Current program of stocking coho is new
- Utilizes goals established for KS during 1993-1999 DWR/DFG study
 - Stock 170,000 coho (annually)
 - Growth: 13 in. at 18 months, 16 in at 24 months

Angler Satisfaction – the best test of all



LAKE OROVILLE STOCKING PROGRAM RESULTS

- 170,000 coho stocking goal was achieved in 2002 and 2003, not in 2004
- Growth goals were achieved: Coho grew very fast, reaching 15 inches at 18 months of age, and some exceeding 20 inches at 24 months of age



LAKE OROVILLE STOCKING PROGRAM RESULTS (Cont'd)

- Very high level of angler satisfaction
 - Unique fishery, only lake in CA with coho
 - Shallower orientation than KS, easier to catch
 - Good fighting ability, excellent eating
 - Numerous articles in local and state fishing publications
 - Requested by local recreation groups



L. OROVILLE COHO (23 in.)





LAKE OROVILLE PROGRAM CONCLUSION

- Lake Oroville stocking program is achieving its current stocking goals, though current reliability of egg source is questionable and needs to be strengthened
 - DFG pathologists have been advising WA Hatchery on better rearing techniques
 - DFG/DWR pursuing additional egg sources
 - DFG/DWR will initiate investigation of using Lake Oroville coho as brood stock
- NOAA, DWR and DFG Agreement needed this fall

FOREBAY STOCKING GOALS

- Current program is utilizing goals in DFG's:
 Strategic Plan for Trout Management, a plan for 2004 and Beyond
 - Criteria in Strategic Plan for put-and-take-programs:
 - Hatchery trout, 10-12 inches long
 Stocked in easily accessible, public water, with high recreational angling demand
 - Goal of achieving at least a 50% return to the angler by number, or weight (may be revised)
- Angler Satisfaction the best test of all

FOREBAY STOCKING PROGRAM RESULTS

- Forebay meets Strategic Plan criteria:
 - Easily accessible, public water, high recreational demand
- Forebay return rate is 22% by number below the 50% Return Policy of the California Fish and Game Commission
 - The Commission established this policy in the late 1950s and DFG has often had difficulty achieving this goal, even in some of its most popular waters
 - A recent DFG study of 16 lakes and reservoirs in Region 2 found that none met the 50% criteria
 - Thermalito Forebay ranked 6th out of 16



<u>WATER</u>	# TAGGED	RETURN RATE
Sugar Pine	1194	32%
Fuller	1126	31%
Red	905	30%
Scott's Flat (Upper)	699	26%
Ice House	399	25%
Thermalito Forebay	797	22%
Jenkinson	1194	21%
Folsom	1295	18%
Rollins	798	17%
Boca	1200	15%
Donner	1899	13%
Union Valley	400	12%
Jackson Meadows	299	9%
Bucks	500	9%
Loon	400	9%
Stampede	1691	5%



FOREBAY STOCKING PROGRAM RESULTS (CONT'D)

- Angler Satisfaction is high
 - SP-R13 (Recreation Workgroup) reported that 80% of the anglers contacted were satisfied, 2nd Highest at project
 - Angling accounted for 24% of total use of Forebay, 2nd only to picnicking (32%)



FOREBAY PROGRAM CONCLUSION

- Forebay stocking program is achieving its current stocking goals
 - Provides an attractive angling opportunity
 - High level of angler satisfaction
 - Adequate return to angler (6th highest in DFG Region 2 study)

